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ABSTRACT

A system and method employing pre- and/or post- condition(s) specified at a source code level and persisted (*e.g.,* in associated object code and/or a specification repository) facilitating static checking of the object code is provided. The system and method are based, at least in part, upon a framework that employs rules for using an interface to be recorded as declarative specifications in an existing language.

A specifier can give a method a plug-in pre- and postcondition, which is arbitrary code that examines an object's current state and a static approximation of the method's actuals, decides whether the call is legal and returns the object's state after the call.

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